COM85XX
Communication Card

User's Manual (V1.0)

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Correction record

Version	Record
1.0	

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Notes on hardware installation

Please follow step by step as you are installing the control cards.

1. Be sure your system is power off.
2. Be sure your external power supply for the wiring board is power off.
3. Plug your control card in slot, and make sure the golden fingers are put in right contacts.
4. Fasten the screw to fix the card.
5. Connect the cable between the card and wiring board.
6. Connect the external power supply for the wiring board.
7. Recheck everything is OK before system power on.
8. External power on.

Congratulation! You have it.

For more detail of step by step installation guide, please refer the file “installation.pdf “ on the CD come with the product or register as a member of our user’s club at:

http://automation.com.tw/

to download the complementary documents.

1. Forward

Thank you for your selection of JAC's product COM85xx communication card for industrial PC. There are so many communication cards on the market, JS Automation wants to provide you a stable and high reliability choice.

COM series products:

COM8502 PCIe 2 x RS232 communication card
COM8504 PCIe 4 x RS232 communication card
COM8524 PCIe 2 x RS232 and 2 x RS422/485 communication card
COM8544 PCIe 4 x RS232/RS422/RS485 communication card
COM8562 PCIe isolated 2 x RS422/RS485 communication card
COM8564 PCIe isolated 4 x RS422/RS485 communication card

Any comment is welcome,
please visit our website
http:// www.automation.com.tw for the up to date information.

2. Features

2.1 Main card

2.1.1 PCIe compliant

2.1.2 Baud rate up to 921.6Kbps

2.1.3 128 byte FIFO

2.1.4 On chip H/W, S/W flow control

Isolation type card (COM8562,COM8564)

2.1.5 Port to port and port to computer isolation

2.1.6 Magnetic coupler isolation

2.1.7 Baud rate up to 921.6K

3. Specifications

3.1 COM85xx card

3.1.1 Controller chip: 16c550C compatible

3.1.2 Bus : PCIe

3.1.3 Connector : DB-9 x2 (COM8502,COM8524)
x4 (COM8504,COM8544)
DB-25 (COM8562) extend to 2 x DB-9
DB-37 (COM8564) extend to 4 x DB-9

3.1.4 Baud rate : 110 bps to 921.6Kbps

3.1.5 Data bits : 5,6,7,8

3.1.6 Stop bits : 1, 1.5, 2

3.1.7 Parity : none, even, odd, space, mark

3.1.8 Flow control : none, hardware, Xon/Xoff

3.1.9 I/O address : assigned by BIOS

3.1.10 IRQ : assigned by BIOS

3.1.11 Power : 3.3Vdc

3.1.12 Operation temperature : 0 to +70 degree C

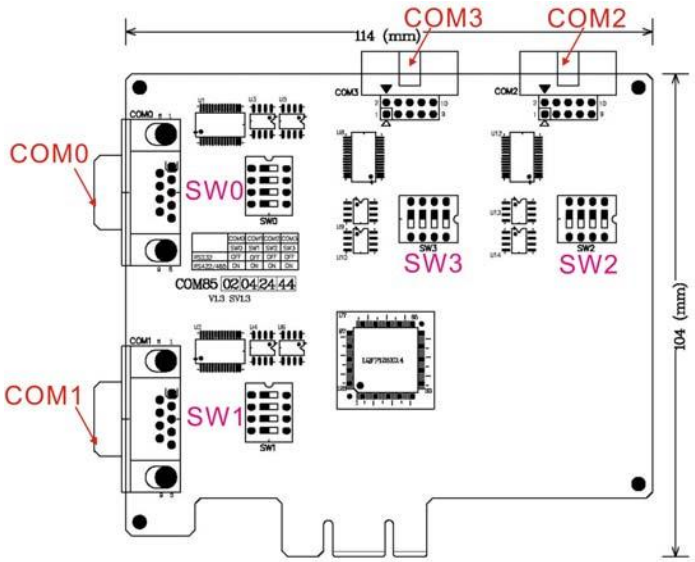
3.1.13 Storage temperature : -20 to +80 degree C

3.1.14 Operation humidity : 5~95% RH, non-condensing

3.1.15 Dimensions : 114(W) * 104(H) mm , 4.49(W) * 4.09(H)in
(COM8502/8504/8524/8544)
112(W) * 115(H) mm , 4.41(W) * 4.53(H)in (COM8562,COM8564)

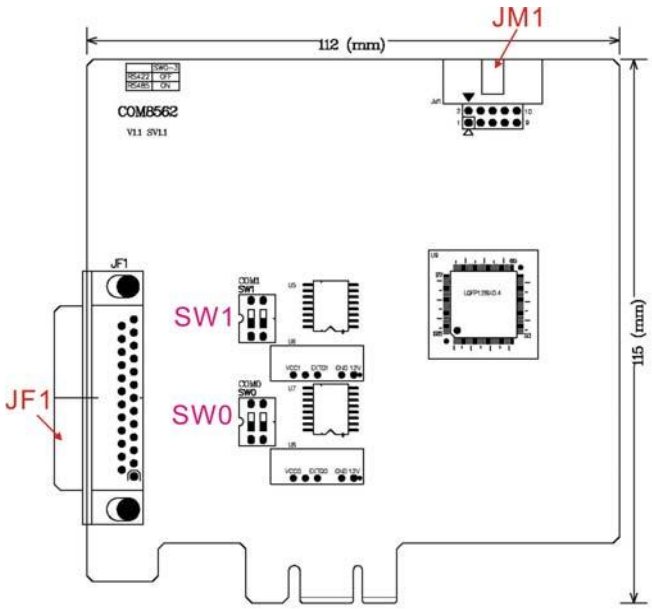
4. Layout and dimensions

4.1 COM8502/8504/8524/8544 Main card

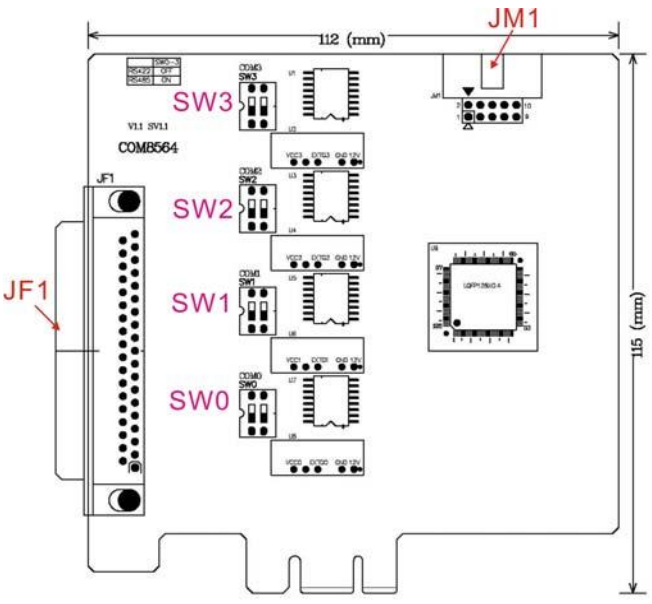


(COM2,COM3 are not available for COM8502,COM8524)

4.2 COM8562/8564 Main card



COM8562

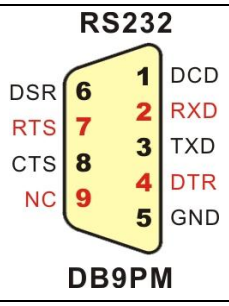


COM8564

5. PIN definitions

5.1 RS232

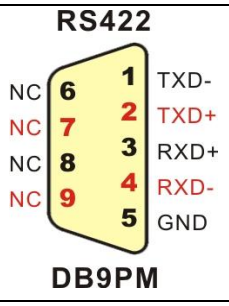
PIN	Descriptions
6	DSR
7	RTS
8	CTS
9	NC



PIN	Descriptions
1	DCD
2	RXD
3	TXD
4	DTR
5	GND

5.2 RS422

PIN	Descriptions
6	NC
7	NC
8	NC
9	NC



PIN	Descriptions
1	TXD-
2	TXD+
3	RXD+
4	DXD-
5	GND

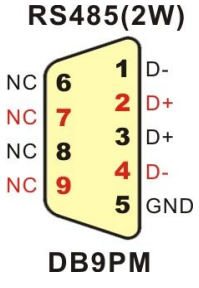
5.3 RS485 (2W) for COM8502/04/24/44

PIN	Descriptions
6	NC
7	NC
8	NC
9	NC

PIN	Descriptions
1	NC
2	NC
3	D+
4	D-
5	GND

5.4 RS485 (2W) for COM8562/64

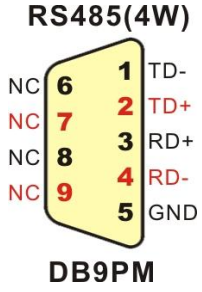
PIN	Descriptions
6	NC
7	NC
8	NC
9	NC



PIN	Descriptions
1	D-
2	D+
3	D+
4	D-
5	GND

5.5 RS485 (4W)

PIN	Descriptions
6	NC
7	NC
8	NC
9	NC



PIN	Descriptions
1	TD-
2	TD+
3	RD+
4	RD-
5	GND

6. Hardware settings

6.1 DIP switch setting (COM8502/8504/8524/8544)

COM port corresponding	COM0	COM1	COM2	COM3
	SW0	SW1	SW2	SW3
RS-232	ALL off	ALL off	ALL off	ALL off
RS-485/422	ALL **on**	ALL **on**	ALL **on**	ALL **on**

Note: Software must in compliance with the hardware settings.

6.2 DIP switch setting (COM8562/8564)

COM port corresponding	COM0	COM1	COM2	COM3
	SW0	SW1	SW2	SW3
RS-422	ALL off	ALL off	ALL off	ALL off
RS-485	ALL **on**	ALL **on**	ALL **on**	ALL **on**

Note: Software must in compliance with the hardware settings.

7. Ordering information

PRODUCT	DESCRIPTIONS
COM8502	PCIe 2 x RS232 communication card
COM8504	PCIe 4 x RS232 communication card
COM8524	PCIe 2 x RS232 and 2 x RS422/485 communication card
COM8544	PCIe 4 x RS232/RS422/RS485 communication card
COM8562	PCIe isolated 2 x RS422/RS485 communication card
COM8564	PCIe isolated 4 x RS422/RS485 communication card
SM23410	Extension kit for COM8504/8524/8544
M27032509015	D type 25 pin male to 2 x D type 9 pin male cable, 15cm(COM8562)
M27033709015	D type 37 pin male to 4 x D type 9 pin male cable, 15cm(COM8564)